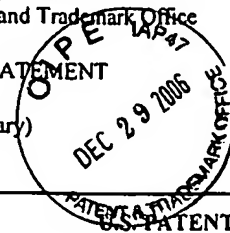


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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				Applicant Mitsuaki OSHIMA et al.			
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U.S. PATENT DOCUMENTS													
EXAMINER INITIAL		DOCUMENT NUMBER						DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
AB		5	8	0	8	6	9	4	09/15/98	USUI et al.			
AB		6	0	3	7	9	9	8	03/14/00	USUI et al.			
AB		6	0	7	5	5	7	0	06/13/00	USUI et al.			
AB		5	9	3	9	6	9	9	08/17/99	PERTTUNEN et al.			

FOREIGN PATENT DOCUMENTS													
		DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
AB		7	-	6	1	9	3	01/10/95	JAPAN				
AB		5	-	4	6	4	5	02/26/93	JAPAN				
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AB		9-	1	4	4	3	9	06/06/97	JAPAN				
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AB		3-	2	2	5	3	1	10/01/91	JAPAN				
AB		10	-	4	5	7	1	02/20/98	JAPAN				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
AB	1	English Language Abstract of JP 7-6193.
AB	2	English Language Abstract of JP 5-45645.
AB	3	English Language Abstract of JP 7-129708.
AB	4	English Language Abstract of JP 10-70479.
AB	5	English Language Abstract of JP 9-149439.
AB	6	English Language Abstract of JP 2000-299888.

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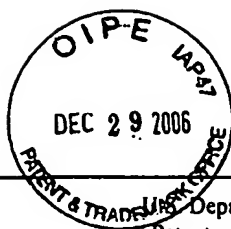
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AB		5	9	3	9	6	9	9	08/17/99	PERTTUNEN et al.			
AB		5	8	6	4	7	5	3	01/26/99	MORITA et al.			
AB		5	9	3	0	7	6	7	07/27/99	REBER et al.			

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		DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO		
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AB		1	1	6	1	0	7	2	12/05/01	E.P.O.				
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AB	20	00-	2	8	5	3	2	4	10/13/00	JAPAN				

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AB	1	English Language Abstract of JP 11-127131.	
AB	2	English Language Abstract of JP 11-196062.	
AB	3	English Language Abstract of JP 11-261906.	
AB	4	English Language Abstract of JP 8-275077.	
AB	5	English Language Abstract of JP 8-16740.	
AB	6	English Language Abstract of JP 7-146646.	
AB	7	English Language Abstract of JP 2000-285324.	

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P21777Serial No.
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December 5, 2001Group
Unknown

2616

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
AB		00 / 6 0 4 3 6	10/12/00	W.I.P.O.			
AB	20	00- 3 0 6 0 0 3	11/02/00	JAPAN			
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AB	20	01- 2 8 3 1 1 7	10/12/01	JAPAN			
AB		08- 2 4 2 2 1 3	09/17/96	JAPAN			
AB		62- 1 3 7 9 1 2	06/20/87	JAPAN			

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AB		9	English Language Abstract of JP 10-49571.
AB		10	English Language Abstract of JP 5-263558.
AB		11	English Language Abstract of JP 3-222531.
AB		12	English Language Abstract of JP 2001-256388.
AB		13	English Language Abstract of JP 2001-325468.
AB		14	English Language Abstract of JP 2001-344545.
AB		15	English Language Abstract of JP 2001-17504.
AB		16	English Language Abstract of JP 2001-283117.
AB		17	English Language Abstract of JP 08-242213.
AB		18	English Language Abstract of JP 62-13712.

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Applicant Mitsuaki OSHIMA et al.		
Filing Date December 5, 2001		Group Unknown 2616

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
AB		11- 1 4 6 3 9 3	05/28/99	JAPAN				
AB	20	02 - 2 4 4 4 5	02/25/02	JAPAN				
AB		63- 1 0 2 3 8 1	07/04/88	JAPAN			X	
AB	20	01- 0 0 5 8 8 3	01/12/01	JAPAN				

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AB	19	English Language Abstract of JP 11-146393.
AB	20	English Language Abstract of JP 2002-2445.
AB	21	English Language Abstract of JP 2001-005883.
AB	22	Mobile Media Magazine, vol. 66, December, 2000, pages 50-53, with a partial English language translation.
AB	23	"News & Topics", Mobile Media Magazine, December, 2000, page 13, with a partial English language translation.

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